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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/656,458	09/05/2003	Richard W. Tschantz	1054-AB	8433
27542 7:	590 10/06/2004		EXAMINER	
SAND & SEE	BOLT R, SUITE 1100	DILLON JR, JOSEPH A		
	N STREET, NW		ART UNIT	PAPER NUMBER
CANTON, OF	1 44718-3615	3651		
			DATE MAIL ED: 10/06/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	
`\		10/656,458	TSCHANTZ, RICHARD W.	
	Office Action Summary	Examiner	Art Unit	
		Joseph A. Dillon, Jr.	3651	
	The MAILING DATE of this communication app		h the correspondence address	
A SH THE - Extr - If th - If N - Fail Any	HORTENED STATUTORY PERIOD FOR REPLIANCE MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.1 for SIX (6) MONTHS from the mailing date of this communication. He period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period value to reply within the set or extended period for reply will, by statute or reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a re y within the statutory minimum of thirty will apply and will expire SIX (6) MON s, cause the application to become AB	eply be timely filed (30) days will be considered timely. THS from the mailing date of this communication ANDONED (35 U.S.C. § 133).	on.
Status				
1)[🛛	Responsive to communication(s) filed on 11 S	September 2003.		
		s action is non-final.		
3)□	Since this application is in condition for allowa	nce except for formal matte	ers, prosecution as to the merits i	is
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D.	. 11, 453 O.G. 213.	
Disposi	tion of Claims			
5)□ 6)⊠ 7)⊠	Claim(s) 1-18 is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) 16 and 17 is/are objected to. Claim(s) are subject to restriction and/or	wn from consideration.		
Applicat	tion Papers			
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine	epted or b) objected to to defend or b) objected to the drawing(s) be held in abeyan tion is required if the drawing(ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121((d).
Priority	under 35 U.S.C. § 119			
a)	Acknowledgment is made of a claim for foreign All b Some * c None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau See the attached detailed Office action for a list	is have been received. Is have been received in Aprity documents have been u (PCT Rule 17.2(a)).	oplication No received in this National Stage	
Attachmei	• •	∴ □	(DTD 112)	
2)	ice of References Cited (PTO-892) ice of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date	Paper No(s	ummary (PTO-413))/Mail Date formal Patent Application (PTO-152) 	

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Application/Control Number: 10/656,458

Art Unit: 3651

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DETAILED ACTION

Claim Objections

1. Claims 16-17 are objected to because of the following informalities: there are two of each. Appropriate correction is required.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 1-18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

With regard to claim(s) 1 & 14, "rotating" should be --pivoting--.

With regard to claim(s) 10, 14, 17, 18, "similar" is indefinite.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Tschantz (6,540,069) or Tschantz (5,107,983) in view of either Gilbert (2,998,121) or Bouzat et al. (3,630,340).

Art Unit: 3651

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Tschantz (6,540,069) and Tschantz (5,107,983) meet all of the limitation(s) of the claim(s) but lack bottom grooves. Gilbert (2,998,121) and Bouzat et al. (3,630,340) teach(es) bottom grooves.

It would have been obvious to modify Tschantz (6,540,069) or Tschantz (5,107,983) to provide bottom grooves in order to increase efficiency as taught by either Gilbert (2,998,121) or Bouzat et al. (3,630,340).

Conclusion

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph A. Dillon, Jr. whose telephone number is (703)305-9728. The examiner can normally be reached on 8-5:30, every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Ellis can be reached on (703)308-2560. The fax phone numbers for the organization where this application or proceeding is assigned are (703)305-7687 for regular communications and (703)308-0552 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-1134.

JOE DILLON, JFL MARY PATENT EXAMINER

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